

Unclassified  
SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE				
1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS		
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION / AVAILABILITY OF REPORT See reverse.		
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE				
4. PERFORMING ORGANIZATION REPORT NUMBER(S) Technical Report SL-87-9		5. MONITORING ORGANIZATION REPORT NUMBER(S)		
6a. NAME OF PERFORMING ORGANIZATION USAEWES Structures Laboratory	6b. OFFICE SYMBOL (if applicable) WESSD	7a. NAME OF MONITORING ORGANIZATION USAEWES Geotechnical Laboratory		
6c. ADDRESS (City, State, and ZIP Code) PO Box 631 Vicksburg, MS 39180-0631		7b. ADDRESS (City, State, and ZIP Code) PO Box 631 Vicksburg, MS 39180-0631		
8a. NAME OF FUNDING / SPONSORING ORGANIZATION US Army Corps of Engineers	8b. OFFICE SYMBOL (if applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER		
8c. ADDRESS (City, State, and ZIP Code) Washington, DC 20314-1000		10. SOURCE OF FUNDING NUMBERS See reverse.		
		PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.
				WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) A Preprocessor for the Revised Vehicle Dynamics Module: User's Guide for Computer Program PREVDYN2				
12. PERSONAL AUTHOR(S) Creighton, Daniel C.				
13a. TYPE OF REPORT Final report	13b. TIME COVERED FROM 1984 TO 1986	14. DATE OF REPORT (Year, Month, Day) April 1987	15. PAGE COUNT 95	
16. SUPPLEMENTARY NOTATION				
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	Computer programs PREVDYN2 (Computer program) Vehicles	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) <p>A preprocessor called PREVDYN2 has been written to facilitate vehicle input for the revised vehicle dynamics module VEHDYN II. Direct height and length measurements from a vehicle in settled equilibrium are input to PREVDYN2. The resulting output file describes the vehicle in the so-called zero-force configuration and is formatted as needed for direct input to VEHDYN II.</p> <p>This user's guide presents the equations used to convert from settled to zero-force configuration. A record-by-record input guide defines the input file format for PREVDYN2, including definitions for all of the required input variables. Three sample problems demonstrate both the input for and the output from PREVDYN2.</p>				
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL			22b. TELEPHONE (Include Area Code)	22c. OFFICE SYMBOL

3. DISTRIBUTION/AVAILABILITY OF REPORT (Continued).

Limited to US Government agencies and their contractors; administrative/operational use; April 1987. Other requests for this document must be referred to the Office, Chief of Engineers, US Army, Washington, DC 20314-1000.

10. SOURCE OF FUNDING NUMBERS (Continued).

Project 4A161102AT22, "Research in Soil and Rock Mechanics," Task CO, Work Unit 004, "Wheel, Track, and Soil Dynamics Influence on Mobility."